

COP_TIME_SYNC

Software User's Guide

COP_TIME_SYNC Segment Version 1.0.0.0 for GCCS Version 2.2

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Section 1

What Is COP_TIME_SYNC?

COP_TIME_SYNC is a software segment within the Common Operational Picture (COP), a software application for the Global Command and Control System (GCCS) on the Unified Build (UB) platform. The COP allows the near real-time exchange of track data between participating nodes on a wide area network (WAN) and/or a local area network (LAN), as depicted in Figure 1-1 (and further discussed in the COP Software User's Guide).

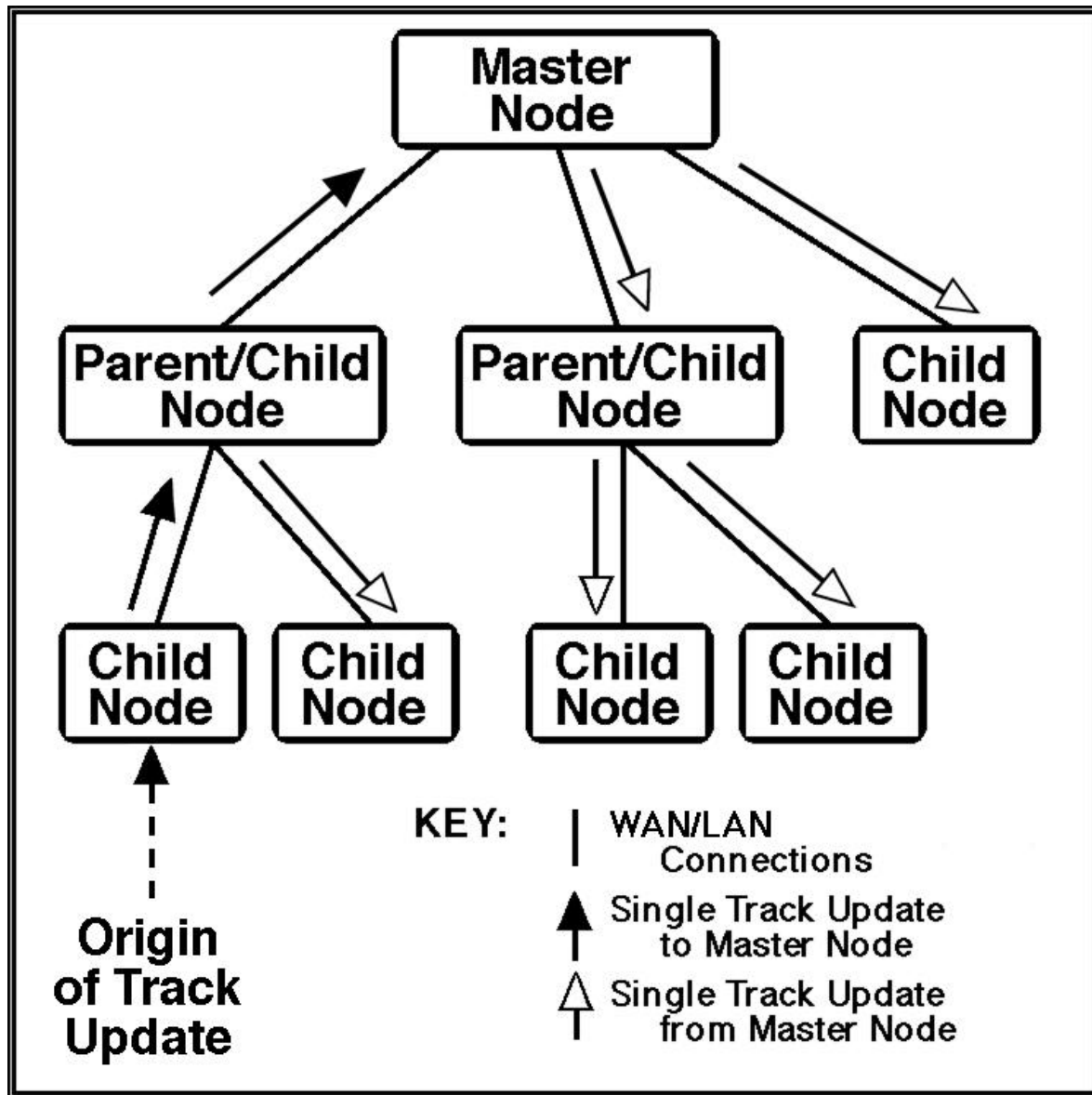


Figure 1-1 COP Data Flow

The COP_TIME_SYNC segment provides the ability for a node to Remote-date (R-date) its system time to match that of a remote host (most commonly the master node). Because the exchange of COP track data is time sensitive, each child node should install this segment so that it can R-date to the master node.

Once the COP_TIME_SYNC segment is installed, the child node should R-date to the master node at the start of each day.

For instructions on installing the COP_TIME_SYNC segment, see Section 2. For instructions on R-dating to a remote host, see Section 3.

Section 2

How Do I Install It?

The COP_TIME_SYNC segment is provided on a 4mm or 8mm tape by the Defense Information Systems Agency (DISA). A GCCS user with system administration (sysadmin) privileges must install the COP_TIME_SYNC segment onto each GCCS workstation that will require the capability of R-dating. The tape containing this segment must be physically inserted into a compatible device on either the local GCCS workstation or a remote machine accessible via network connection to the local GCCS workstation.

Installing the COP_TIME_SYNC segment requires the use of the GCCS Segment Installer option. This option does the following:

- Identifies which applications/segments are loaded on the local workstation.
- Identifies which applications/segments are available on a tape or on a Segment Installation Server.
- Provides the capability to install and/or de-install applications/segments on the local workstation.

The Segment Installer installs software in the /h file system on the local workstation. When this file system is approximately 80 percent full, the Segment Installer installs software in /home1, followed by /home2, /home3, etc. The 80-percent constraint can be overridden on systems with limited disk space by using the Disk Space Override feature of the Segment Installer. In most cases, the software installation process is automatic, requiring no further actions on the part of the user.

To install the COP_TIME_SYNC segment:

1. At the local GCCS workstation, log into GCCS as sysadmin, following your normal site procedures. The SYSTEM ADMINISTRATOR screen appears.
2. Insert the tape containing the segment into the appropriate tape drive (on either the local workstation or a remote machine) and wait until the control panel LEDs stop blinking.

3. From the Software menu on the local GCCS workstation, select Segment Installer. The System Processing Warning window appears, informing you that any active sessions on the system will be terminated. In order to use the Segment Installer option, you must terminate all active sessions. Please advise all other users who may be affected.
4. To terminate all active sessions, click OK. The SEGMENT INSTALLER window appears.

SEGMENT INSTALLER

— SOURCE —

HOST: LOCAL felix DEVICE: DAT

SELECT MEDIA

— TABLE OF CONTENTS —

NAME	VERSION	TYPE	CL	RESERVE

READ TOC **INSTALL** **REL NOTES**

REQUIRED **CONFLICTS**

— DESTINATION —

— FREE DISK SPACE —

DISK	ACTUAL	AVAILABLE
/h	715.62 MB	493.50 MB
TOTAL :	715.62 MB	493.50 MB (80%)

— SEGMENTS CURRENTLY INSTALLED —

NAME	VERSION	TYPE	CL	ACTUAL	RESERVED
COP	1.0	S/W	U	0.75 MB>	0.01 MB
Exec Mgr	2.1.1.1	S/W	U	88.71 MB>	73.24 MB
GCCS COE	2.2.0.5	S/W	U	92.77 MB	100.10 MB
JMCIS Applications	3.0.1.6G	S/W	U	23.89 MB	23.93 MB
JMCIS Developer	3.0.1.6G	S/W	U	18.43 MB	18.55 MB

REL NOTES **DE-INSTALL** **LOCATION**

STAT LOG **EXIT**

Figure 2-1 SEGMENT INSTALLER Window

If loading from a local device, proceed directly to Step 9. If loading from a remote or non-standard device, complete Steps 5 through 8 before proceeding to Step 9.

5. In the upper portion of the SOURCE box in the SEGMENT INSTALLER window, click SELECT MEDIA. The SELECT MEDIA window appears.

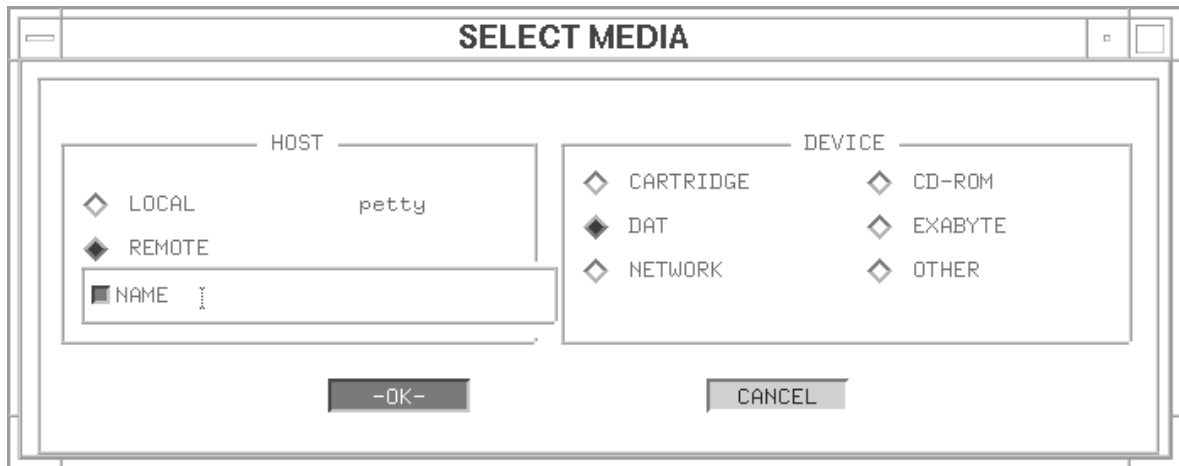


Figure 2-2 SELECT MEDIA Window

6. In the DEVICE box, select the media type of the segment tape (i.e., DAT or EXABYTE). (To manually enter the filename of the device, select OTHER and then enter the device name in the field that appears. CAUTION: It is highly recommended that only no-rewind devices be used.)
7. In the HOST box, select the location of the segment tape:
 - a. If the segment tape is loaded on the local GCCS workstation, select LOCAL; then proceed to Step 8.
 - b. If the segment tape is loaded on a remote machine, select REMOTE. A NAME field appears.
 - Click the button next to the NAME field to display a list of hosts available on the network.
 - From the list of available hosts, select the name of the remote host where the tape is loaded.
8. Click OK to return to the SEGMENT INSTALLER window.
9. Click READ TOC. The TABLE OF CONTENTS box displays a list of each software segment contained on the tape. This list contains the following column headings:

NAME

Name of the segment (e.g., COP_TIME_SYNC).

VERSION

Version number of the segment.

TYPE

Type of the segment (e.g., S/W for software).

CL

Classification of the segment (e.g., U for UNCLASSIFIED).

RESERVED

Space reserved by the system on the local workstation in order for the segment to be installed.

10. From the list in the TABLE OF CONTENTS box, select COP_TIME_SYNC; then click INSTALL. A warning window appears, explaining that in order to use the Cop Time Sync option, you will need to log out of the System Administrator's account (once you have completed the installation) and then log into it again.
11. Click the EXIT button to dismiss the warning window and proceed with the installation.
12. When the installation is complete, a warning window appears, stating Selected Segment(s) Installed Successfully.
13. Click the EXIT button to dismiss the warning window and return to the SEGMENT INSTALLER window.
14. To view the release notes for a segment:
 - a. Select the segment in the SEGMENTS CURRENTLY INSTALLED box and click REL NOTES. The RELEASE NOTES window appears.

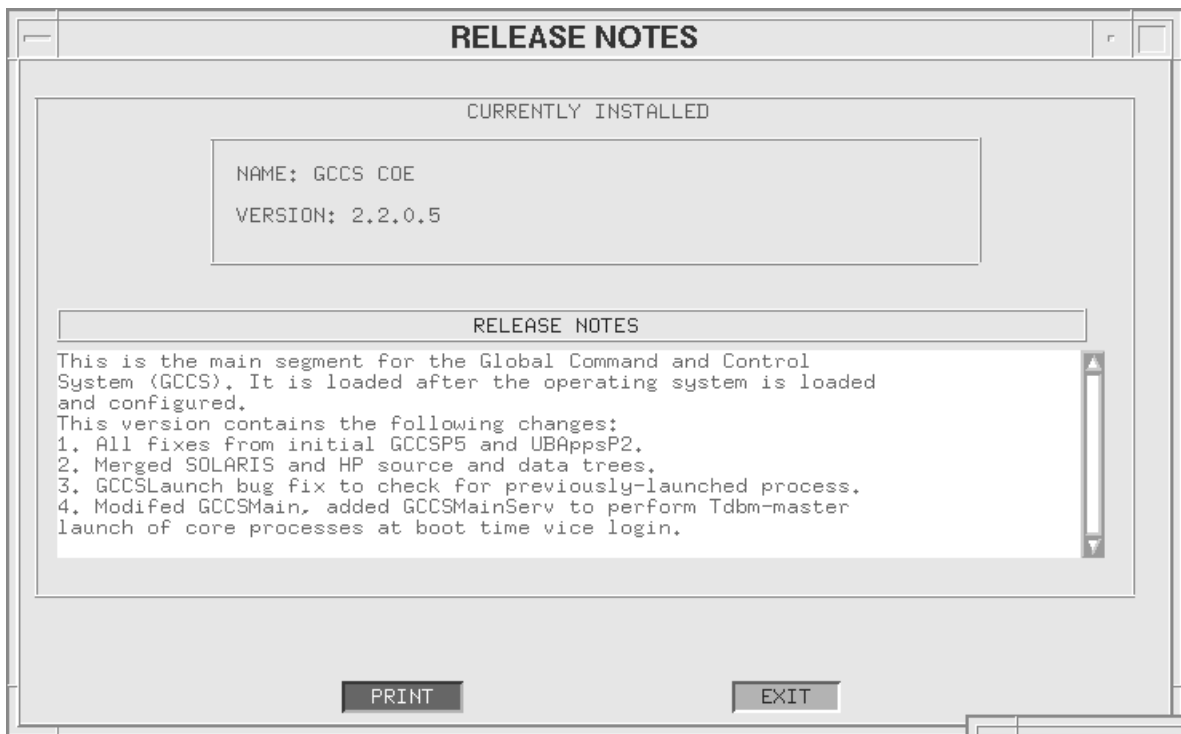


Figure 2-3 RELEASE NOTES Window

The RELEASE NOTES window displays the following information:

- **NAME:** Name of the segment
 - **VERSION:** Version number of the segment
 - **RELEASE NOTES:** Release notes for the segment (if any)
- b. To print the contents of the RELEASE NOTES window, click PRINT.
 - c. To exit the RELEASE NOTES window and return to the SEGMENT INSTALLER window, click EXIT.
15. To remove a segment from the system: Note first that the segment will be removed without the appearance of a warning window; then select the segment in the SEGMENTS CURRENTLY INSTALLED box and click DE-INSTALL. When the segment has been de-installed, a notice window appears, stating SEGMENT SUCCESSFULLY DE-INSTALLED.
 16. To view the location of a segment on the local workstation:
 - a. Select the segment in the SEGMENTS CURRENTLY INSTALLED box and click LOCATION. The SEGMENT LOCATIONS window appears.

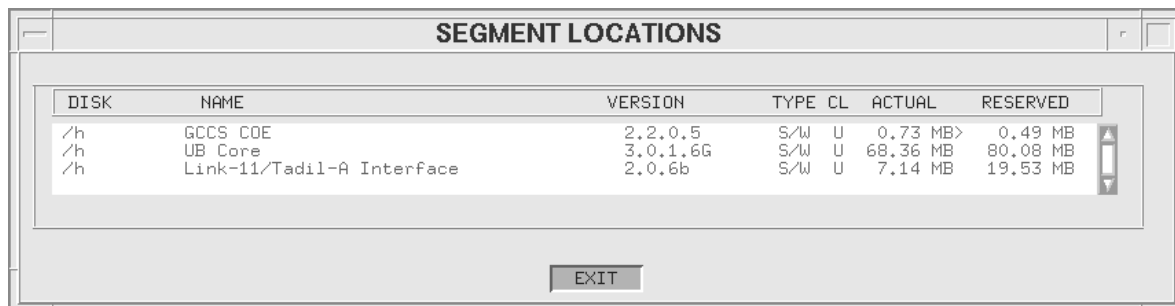


Figure 2-4 SEGMENT LOCATIONS Window

This window provides the following information:

DISK

Directory on the local workstation where the segment is installed.

NAME

Name of the segment.

VERSION

Version number of the segment.

TYPE

Type of the segment.

CL

Classification of the segment.

ACTUAL

Actual space in use by the segment on the local workstation.

RESERVED

Space reserved for the segment on the local workstation at the time of installation.

- b. To exit the SEGMENT LOCATIONS window and return to the SEGMENT INSTALLER window, click EXIT.

- 17. To exit the SEGMENT INSTALLER window, click EXIT.

Section 3

How Do I Use It?

The following instructions explain how to R-date to a remote host.

CAUTION: It is extremely important for every child node to R-date to the master node as part of its login procedure at the start of each day. In order for the COP to provide a true "common operational picture," all participating nodes must be closely synchronized so that the integrity of time-sensitive track data is maintained.

1. At a workstation serving as a COP child node with the COP_TIME_SYNC segment installed, log into GCCS as sysadmin, following your normal site procedures. The SYSTEM ADMINISTRATOR screen appears.
2. Verify that the system to which you will R-date is listed in the EDIT HOSTS window (which is displayed from the Network menu by selecting Edit Local Hosts). If the system is not listed, add it by entering its hostname and IP address.
3. From the Network menu, select Cop Time Sync. The Time Sync window appears, displaying the following prompt: Enter Machine Name to Time Sync with .
4. In the field provided, enter the machine name of the master node.
5. Click OK. The system time of the local workstation is R-dated to the time provided by the master node.

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